



9900279

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

FFRAB Genetics Corporation

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY; OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'CX300'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this ninth day of February, in the year of our Lord two thousand one.

Attest:

Alvin Ford

Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

| | | | | | |
|--|--|--|-----------------------------|---|--|
| 1 NAME OF OWNER DEKALB Genetics Corporation | | 2 TEMPORARY DESIGNATION OR EXPERIMENTAL NAME EX828B | | 3 VARIETY NAME CX300 | |
| 4 ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 3100 Sycamore Road DeKalb, IL 60115 U.S.A. | | 5 TELEPHONE (include area code) (815) 758-9281 | | FOR OFFICIAL USE ONLY | |
| | | 6 FAX (include area code) (815) 758-3117 | | PVPO NUMBER 9900279 | |
| 7 IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation | | 8 IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware | | FILING DATE 5-7-99 | |
| 10 NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) | | | | FILING AND EXAMINATION FEES: \$ 2450.00 DATE 5-7-99 CERTIFICATION FEE: \$ 320.00 DATE 11-14-00 | |
| 11 TELEPHONE (Include area code) (815) 758-9281 | | 12 FAX (include area code) (815) 758-3117 | | 13 E_MAIL tkain@dekab.com | |
| 14 CROP KIND (Common Name) Soybean | | 15 GENUS AND SPECIES NAME OF CROP Glycine max | | 16 FAMILY NAME (Botanical) Leguminosae | |
| 17 IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | 18 CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) | | | |
| a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety | | b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness | | | |
| c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety | | d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) | | | |
| e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership | | f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) | | | |
| g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) | | 19 DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no," go to item 22) | | | |
| 20 DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO | | 21 IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED | | | |
| 22 HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? X YES U.S. January 1999 IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) | | 23 IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? U.S. Patent (pending) Application No. 09/232,800 Filing Date: 1/15/99 X YES <input type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.) | | | |
| 24 The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. | | | | | |
| SIGNATURE OF OWNER Timothy R. Kain | | | SIGNATURE OF OWNER | | |
| NAME (Please print or type) Timothy R. Kain | | | NAME (Please print or type) | | |
| CAPACITY OR TITLE Patent Scientist | | DATE 5/20/99 | | CAPACITY OR TITLE | |
| | | | | DATE | |

Origin and Breeding History
CX300

Soybean cultivar CX300 has superior characteristics and is derived from the cross CX250b x CX267. CX300 was developed as follows:

| | |
|----------------|--|
| Summer 1992 | The cross CX250b x CX267 was made. |
| Winter 1992-93 | F1 generation was grown (range 1, row 5). F2 generation was grown (range 5, rows 1-10). |
| Summer 1993 | F3 generation was grown (range 614, rows 21-40 through range 615, rows 1-20). |
| Winter 1993-94 | F4 generation was grown. Range 34, row 71 was selected. |
| Summer 1994 | F5 generation was grown. |
| Summer 1995 | F6 generation was grown. |
| Winter 1995-96 | F7 generation was grown. |
| Summer 1996 | F8 generation was grown. |
| Summer 1997 | F9 generation was grown. |
| Summer 1998 | F10 generation was grown. |
| Winter 1998-99 | F11 seed was released as CX300. |

Statement of Stability and Uniformity

Soybean variety CX300 has been judged to be uniform for breeding use and testing after four (4) generations of selfing. CX300 was reproduced and judged uniform and stable for an additional seven (7) generations.

Statement of Variants

CX300 shows no variants other than what would normally be expected due to environment or that would occur for almost any characteristic during the course of repeated sexual reproduction.

Novelty Statement

DEKALB Genetics Corporation believes that CX300 is most similar to soybean variety CX278, except for the following traits: CX300 has white flowers, buff hila and is resistant to brown stem rot whereas, CX278 has purple flowers, grey hila and is susceptible to brown stem rot.

OBJECTIVE DESCRIPTION OF VARIETY

Soybean Variety CX300
Experimental Name: EX828B

| | |
|-------------------|---|
| APPLICANT: | DEKALB Genetics Corporation 3100 Sycamore Road DeKalb, IL 60115 |
|-------------------|---|

1. **SEED SHAPE:** (1) Spherical
2. **SEED COAT COLOR: (Mature Seed)** (1) Yellow
3. **SEED COAT LUSTER: (Mature Hand Shelled Seed)** (1) Dull
4. **SEED SIZE: (Mature Seed)** 15.3g/100 seed
5. **HILUM COLOR: (Mature Seed)** (1) Buff
6. **COTYLEDON COLOR: (Mature Seed)** (1) Yellow
7. **SEED PROTEIN PEROXIDASE ACTIVITY:** (2) High
8. **SEED PROTEIN ELECTROPHORETIC BAND:** -
9. **HYPOCOTYL COLOR:** (1) Green
10. **LEAFLET SHAPE:** (3) Ovate
11. **FLOWER COLOR:** (1) White
12. **POD COLOR:** (1) Tan
13. **PLANT PUBESCENCE COLOR:** (1) Gray
14. **PLANT HABIT:** (3) Indeterminate
15. **MATURITY GROUP:** (5) II
16. **MATURITY SUBGROUP:** (8)

17. **DISEASE REACTION:** (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Tolerant)

Bacterial Diseases:

Bacterial Pustule: 0
 Bacterial Blight: 0
 Wildfire Blight: 0

Fungal Diseases:

Brown Spot: 0
 Frogeye Leaf Spot
 Race 1: 0 Race 2: 0 Race 3: 0
 Race 4: 0 Race 5: 0 Race 6: 0
 Other: 0
 Target Spot: 0
 Downy Mildew: 0
 Powdery Mildew: 0
 Brown Stem Rot: 2
 Stem Canker: 0
 Pod and Stem Blight: 0
 Purple Seed Stain: 0
 Rhizoctonia Root Rot: 0
 Phytophthora Root Rot (2) Rps1c
 Race 1: 0 Race 2: 0 Race 3: 0 Race 4: 0
 Race 5: 0 Race 6: 0 Race 7: 0 Race 8: 0
 Race 9: 0 Race 10: 0 Race 11: 0 Race 12: 0
 Race 13: 0 Race 14: 0 Race 15: 0 Race 16: 0
 Race 17: 0 Race 18: 0 Race 19: 0 Race 20: 0
 Race 21: 0 Race 22: 0 Race 23: 0 Race 24: 0
 Race 25: 0 Race 26: 0 Other: 0

Viral Diseases:

Bud Blight: 0
 Yellow Mosaic: 0
 Cowpea Mosaic: 0
 Pod Mottle: 0
 Seed Mottle: 0

EXHIBIT C

CX300

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Nematode Diseases:

Soybean Cyst Nematode (1)

Race 1: 0

Race 2: 0

Race 3: 0

Race 5: 0

Race 6: 0

Race 9: 0

Race 14 (formerly Race 4): 0

Lance Nematode: 0

Southern Root Knot Nematode: 0

Northern Root Knot Nematode: 0

Peanut Root Knot Nematode: 0

Reniform Nematode: 0

Other: 0

20. PHYSIOLOGICAL RESPONSES:

Iron Chlorosis on Calcareous Soil:

Intermediate (DEKALB's score is 5; Rating scale 1-9: 1=resistant)

Other:

0

21. INSECT REACTION:

Mexican Bean Beetle: 0

Potato Leaf Hopper: 0

Other: 0

22. HERBICIDE RESISTANCE:

Metribuzin: 0

Sulfonylurea: 0

Roundup: 0

Other: 0

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

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EXHIBIT E

STATEMENT OF THE BASIS OF OWNERSHIP

| | | |
|---|--|--|
| 1. NAME OF APPLICANT(S) DEKALB Genetics Corporation | 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER EX828B | 3. VARIETY NAME CX300 |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 3100 Sycamore Road DeKalb, IL 60115 U.S.A. | 5. TELEPHONE (include area code) (815) 758-9281 | 6. FAX (include area code) (815) 758-4106 |
| | 7. PVPO NUMBER | 9900279 |

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. ☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? ☒ YES ☐ NO
If no, give name of country

10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?
☐ YES ☐ NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?
☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (if needed, use reverse for extra space):

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.